

## Product datasheet for **RC203332**

### **CAP2 (NM\_006366) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                         |
|---------------------------|-----------------------------------------|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | CAP2 (NM_006366) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                 |
| Symbol:                   | CAP2                                    |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-Entry (PS100001)                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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**ORF Nucleotide  
Sequence:**

>RC203332 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAACATGCAGGGACTGGTGGAAAGACTGGAACGAGCTGTGAGCCGCTGGAGTCGCTGTCTGCAG  
 AGTCCACAGGCCCTGGGAAGTGCAGGGAAGTCAATGGTGTCATTGCAGGTGTGGCACCTCCGTGGA  
 AGCCTTTGACAAGCTGATGGACAGTATGGTGGCCGAGTTTTTAAAGAACAGTAGGATCCTTGCTGGGAC  
 GTGGAGACCCATGCAGAAATGGTGCACAGTGCTTCCAGGCCAGCGGGCTTCTCTGATGGCCTCTC  
 AGTACCAACAACCCACGAGAATGACGTGGCCGCACTTCTGAAACCCATATCGGAAAAGATTGAGAAAT  
 CCAAACTTTCAGAGAGAGAAACCGGGGAGTAACATGTTAATCATCTTCGGCCGTGAGCGAAAGCATC  
 CCTGCCCTTGGATGGATAGCTGTGTCTCCAAACCTGGTCCTTATGTCAAGGAGATGAATGACGCTGCCA  
 CCTTTTACACTAACAGGGTCTTAAAGGACTACAAACACAGTGATTGCGTCATGTGGATTGGGTGAAGTC  
 ATATTTGAACATTTGGAGTGAATTCAGCATACATCAAGGAACACCACACCGGGCTCACATGGAGC  
 AAAACAGGTCCTGTAGCATCCACAGTATCAGCGTTTTCTGTCTCTCTGCGGCTGGCCTCTCCAC  
 CCCCTCTCTCTGCTCTCTCCAGGGCCACCTCCACTTTTCGAGAATGAAGGCAAAAAGAGGAATCTTC  
 TCCTTCACGCTCAGCTTTATTTGCCCACTTAACCAGGGAGAAGCAATTACAAAAGGGCTCCGCCATGTC  
 ACAGATGACCAGAAGACATACAAAAATCCAGCCTGCGGGCTCAAGGAGGGCAAACCTCAATCTCCACCA  
 AAAGTCACACTCCAAGTCCACATCTCTAAATCTTATCCTTCTCAAAAACATGCCCCAGTGTGGAGTT  
 GGAAGGAAAGAAATGGAGAGTGGAGTACCAAGAGGACAGGAATGACCTTGTGATTTCAGAGACTGAGCTG  
 AAACAAGTGGCTTACATTTTCAAATGCGAAAAATCAACTATTGAGATAAAAGGAAAGTAACTCCATTA  
 TAATTGACAACTGTAAGAACTCGGCCTGGTGTGACAATGTGGTGGCATTGTGGAAGTATCAACTC  
 CCAGGACATTCAAATCCAGGTAATGGGGAGAGTGCCAACAATTTCCATTAAAGACAGAAAGGTTGCCAC  
 ATATACCTCAGTGAAGATGCATTAGACTGTGAGATCGTGAGCGCCAAGTCATCTGAAATGAACATACTTA  
 TCCCTCAGGATGGTGATTATAGAGAATTTCCATTCTGAACAGTTCAAGACAGCATGGGATGGATCCAA  
 GTTAATCACTGAACCTGCAGAAATTATGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC203332 protein sequence  
 Red=Cloning site Green=Tags(s)

MANMQGLVERLERAVSRLESLSAESHPPGNCGEVNGVIAGVAPSVEAFDKLMDSMVAEFLKNSRILAGD  
 VETHAEMVHSAFQAQRAFLLMASQYQQPHENDVAALLKPISEKIQEIQTFRERNRGSNMFNHL SAVSESI  
 PALGWIAVSPKPGPYVKEMNDAATFYTNVLKDYKHSDLRHVDWVKS YLNIWSELQAYIKEHHTTGLTWS  
 KTG PVASTVSF SVLSSGPGLPPPPPLPPPGPPPLFENEGKKEESSPSRSALFAQLNQGEAITKGLRHV  
 TDDQKTYKNPSLRAQGGQTQSPTKSHTPSPTSPKSYPSQKHAPVLELEGKKWRVEYQEDRNDLVISETEL  
 KQVAYIFKCEKSTIQIKGVNSIIIDNCKKLGLVFDNVVGIVEVINSQDIQIQVMGRVPTISINKTEGCH  
 IYLS DALDCEI VSAKSSEM NILIPQGDYREFPIPEQFKTAWDGSKLITEPAEIMA

**TR**TRPLE**QKLISEEDLA**AND**ILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6206\\_e01.zip](https://cdn.origene.com/chromatograms/mk6206_e01.zip)

**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



ACCN: NM\_006366

ORF Size: 1431 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_006366.1](#)

RefSeq Size: 3080 bp

RefSeq ORF: 1434 bp

Locus ID: 10486

UniProt ID: [P40123](#)

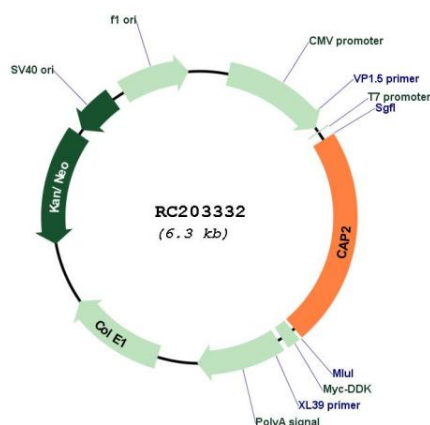
Cytogenetics: 6p22.3

Domains: CAP, CARP

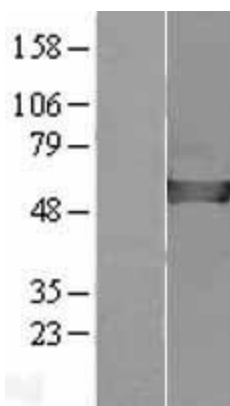
MW: 52.8 kDa

**Gene Summary:** This gene was identified by its similarity to the gene for human adenylyl cyclase-associated protein. The function of the protein encoded by this gene is unknown. However, the protein appears to be able to interact with adenylyl cyclase-associated protein and actin. [provided by RefSeq, Jul 2008]

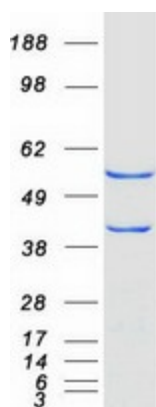
## Product images:



Circular map for RC203332



Western blot validation of overexpression lysate (Cat# [LY416695]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203332 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CAP2 protein (Cat# [TP303332]). The protein was produced from HEK293T cells transfected with CAP2 cDNA clone (Cat# RC203332) using MegaTran 2.0 (Cat# [TT210002]).